

25. (Amended) The method of claim 1 wherein the polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings is poly(dibenzo[*b,h*]fluoren-12-one) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is 12*H*-benzo[*b,h*]fluorene.

26. (Amended) The method of claim 1 wherein the polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings is poly(indeno[1,2-*b*]fluorene-6,12-dione) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is 6,12-dihydro-indeno[1,2-*b*]fluorene.

27. (Amended) A polymer produced according to claim 1.

REMARKS

This Amendment is in response to the non-final Office Action dated March 27, 2003. Claims 1-16 and 21-27 were examined in the Office Action. Applicants request reconsideration of the rejection of the claims.

Applicants have amended claims 14, 15, 16 and 21-27. A markup of the amended claims is attached to this amendment. Reconsideration of the pending claims is respectfully requested. It is believed that the application and claims are in condition for allowance.

Objection To Claims 16 and 21-27

Claims 16 and 21-27 were objected to for minor informalities within the claim language. Applicants agree with the Examiner and have corrected the problematic language where appropriate. As such, Applicant respectfully requests that the claim objection be withdrawn.

Rejection Under §112, Second Paragraph

Claims 14-16 were rejected under 35 U.S.C. §112, second paragraph. The Examiner contends that claims 14-16 include problematic language that make each of these claims indefinite. Applicant has amended claims 14, 15 and 16 above in accordance with the

Examiner's suggestions. Accordingly, Applicant request that the §112, second paragraph rejection be withdrawn.

Rejection Under §102 Addressed

The Examiner rejected claims 1-3, 5, 8, 12, 15-16 and 21 under 35 U.S.C. §102(b) as anticipated by JP 61-271323. This rejection is respectfully traversed with respect to these claims. Reference JP 61-271323 does not teach or suggest the claim limitations found in claims 1-3, 5, 8, 12, 15-16 or 21. In particular, claim 1 recites "[a] method for the production of a polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings," JP 61-271323 teaches the production of a polymer (black deposit) having conductivity. The compositions of the black deposit is unspecified in the reference, and one of ordinary skill in the art would likely believe that the black deposit is a polymer having a cyclopentane structure condensed with at least two aromatic rings. The JP 61-271323 reference never teaches or suggests a method of producing a polymer having at least one unit that contains at least one cyclopentanone structure Therefore, Applicants respectfully request withdrawal of the rejection.

Rejection Under §103 Addressed

The Examiner rejected claims 4 and 9-11 as obvious in view of JP 61-271323 in light of skill in the art at the time the invention was made. This rejection is respectfully traversed with respect to these claims. Since JP 61-271323 does not teach or suggest the claim limitations found in claim 1, it does not teach or suggest the claim limitations in claims 4 or 9-11, and as such Applicant respectfully request withdrawal of the §103 rejection.

In addition, Applicant does not believe that it would have been obvious to one having ordinary skill in the art to include an ester in a method to produce a polymer having at least one unit that contains at least one cyclopentanone structure, as one of ordinary skill in the art would expect to form a cyclopentane containing structure instead. Applicant's methods include an ester as a reaction constituent, for example, necessary for producing poly(flourenone) by electrolysis of poly(flourene), *i.e.*, the ester being required to produce the cyclopentanone structure during electrolysis. As such, Applicant believes that one of skill in the art would not choose to incorporate an ester as a reaction constituent, or even necessarily as a reaction solvent, in

producing the cyclopentanone containing structure, because one of ordinary skill in the art would believe that a cyclopentane containing structure would be formed instead. Therefore, Applicant believes that claims 4 and 9-11 are patentably distinct from JP 61-271323 and the motivation of one having ordinary skill in the art. For this additional reason, Applicant respectfully request withdrawal of the §103 rejection.

Claims Indicated Allowable

The Examiner indicated that claims 6, 7, 13, 14, and 22-27 would be allowable if rewritten in independent form including all of the limitations of the limitations of any base claims and intervening claims, and/or if amended to overcome the Examiner's claim objections and/or rejections under 35 U.S.C. §112. Applicant notes that these claims have been amended to overcome the Examiner's claim objections and rejections with respect to 35 U.S.C. §112. In light of the amendments above and the preceding remarks, Applicant respectfully request allowance of claims 6, 7, 13, 14 and 22-27.

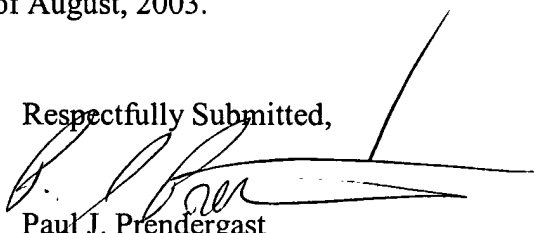
CONCLUSION

Claims 1-16 and 21-27 remain pending in the application. In light of the foregoing Amendment and remarks to Office Action, it is believed that the application is in condition for allowance, which is respectfully solicited.

The appropriate fees are enclosed with this Amendment. However, any fee deficiency can be charged to Deposit Account 04-1415. The Examiner is encouraged to contact the undersigned if any questions regarding this Amendment remain.

Signed at Denver, Colorado, this 27th day of August, 2003.

Respectfully Submitted,



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14. (Amended) The method of claim 13 wherein the polymer is deposited on the one or more electrodes in claim 1.

15. (Amended) The method of claim 1 wherein the concentration of the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is in the range of 0.001-1 mol/L.

16. (Amended) The method of claim 1 wherein the concentration of the electrolyte is in the range of 0.001-1 mol/L.

21. (Amended) The method of claim 1 wherein the [a] polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings in poly(9-fluorenone) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is fluorene.

22. (Amended) The method of claim 1 wherein the [a] polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings is poly(cyclopenta[*def*]phenanthrene-4-one) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is 4H-cyclopenta[*def*]phenanthrene.

23. (Amended) The method of claim 1 wherein the [a] polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings is poly(8*H*-cyclopenta[*def*]fluorene-4-one) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is 4,8-dihydro-cyclopenta[*def*]fluorene.

24. (Amended) The method of claim 1 wherein the [a] polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic

rings is poly(benzo[*b*]fluoren-11-one) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is 11H-benzo[*b*]fluorene.

25. (Amended) The method of claim 1 wherein the [a] polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings is poly(dibenzo[*b,h*]fluoren-12-one) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is 12H-benzo[*b,h*]fluorene.

26. (Amended) The method of claim 1 wherein the [a] polymer having at least one unit that contains at least one cyclopentanone structure condensed with at least two aromatic rings is poly(indeno[1,2-*b*]fluorene-6,12-dione) and the aromatic compound having at least one cyclopentane structure condensed with at least two aromatic rings is 6,12-dihydro-indeno[1,2-*b*]fluorene.

27. (Amended) A [The] polymer produced according to claim 1.